



# ***NAVAL AMMUNITION LOGISTICS CENTER***

## **SLDCADA Architecture**

**Time and Attendance  
Working Group**

***30 August 2001***



# ***SLDCADA***

## ***Architecture***

- ✦ **Systems Architecture**
- ▢ **Security Accreditation**
- ▢ **Performance Testing**
  - Web Version**
- ▢ **Smartcard Update**



# ***SLDCADA***

## ***Architecture***

### ✦ *Systems Architecture*

#### *- Hardware*

##### ✦ *Sun Enterprise Servers*

- Web Application Servers*
- Database Servers*

#### *- Software*

- ✦ *Operating System (Solaris)*
- ✦ *Database Engine (Oracle 8i)*
- ✦ *Enterprise Management (Tivoli)*



# ***SLDCADA***

## ***Architecture***

- ◆ *Systems Architecture (cont'd)*
  - *CONUS*
    - ◆ *2 Sites*
      - *DISA Mechanicsburg, Pa.*
      - *DISA San Diego, Ca.*
    - ◆ *2 Platform Sets\per Site*
    - ◆ *Network Back-up*
      - *DISA Sites*
      - *Yorktown Remote Network Operations Center (RNOC)*



# SLDCADA

## Architecture

### ▮ Systems Architecture (cont'd)

- OCONUS

- ♦ 2 Sites

- Europe (DISA, Mechanicsburg, Pa.)
- Hawaii\Japan (DISA, San Diego, Ca.)

- ♦ 1 Platform Set\per Site

- ♦ Network Back-up

- DISA Sites (Local Sites)
- Yorktown Remote Network Operations Center (RNOC)



# ***SLDCADA***

## ***Architecture***

### ***▮ Security Accreditation***

#### ***- Client/Server Version (Powerbuilder)***

- ◆ DITSCAP Signed***

#### ***- Web Version***

- ◆ IATO (Signed 8/27/2001)***

- ◆ DITSCAP***

- Pending Performance Testing for Web Version***

- Signed (expect NLT 10/30/2001)***



# **SLDCADA**

## **Architecture**

### ♦ *Performance Testing (Web Version)*

#### *– Test Platforms*

- ♦ *RTE Systems (96 workstations set-up)*
- ♦ *Simulates 1-256 Users per System*
- ♦ *Tests in Progress (completed by 9/15/2001)*

#### *– Multiple Tests*

- ♦ *Local Yorktown\Test Facility (Chicago, Il.)*
- ♦ *Mechanicsburg to Yorktown*
- ♦ *Mechanicsburg to San Diego*
- ♦ *Yorktown to San Diego*





# SLDCADA

## Architecture

- ✦ *SmartCard Update*
  - *Working Prototype*
    - ✦ *Developed late FY00*
    - ✦ *Supports barcode, magnetic stripe reader, and SmartCard Technologies*
    - ✦ *Provides Low Level routines to update SLDCADA screen fields, database*





# SLDCADA

## Architecture

- ♦ SmartCard Update (con't)
  - Next Step (FY02)
    - ♦ Met with DON CIO Office (Aug 2001)
      - Received CAC Developer Kit
      - DMDC Demographic API (interface documentation to access DoD Data elements on the CAC)
      - CAC Reader Specification
      - CAC Middleware Requirements
    - ♦ Update Working Prototype Card Access Routines to support DON Standards for Log-On, Email Encryption/Decryption, Electronic Signatures, Authentication, and data storage/retrieval functions.



# SLDCADA

## Architecture

- ✦ *SmartCard Update (con't)*
  - *Next Step (FY02)*
    - ✦ *Finalize SLDCADA Requirements for CAC*
    - ✦ *Determine Requirement-based Design Decision on Card Centric vs. Web-Centric Deployment Strategy*
      - *Hybrid Card Architecture (HCA)*
        - *Static Data common to all (card-centric)*
        - *Application\Organizational Specific (Static and/or Dynamic) - Web-Centric*
        - *SLDCADA Architecture supports HCA*